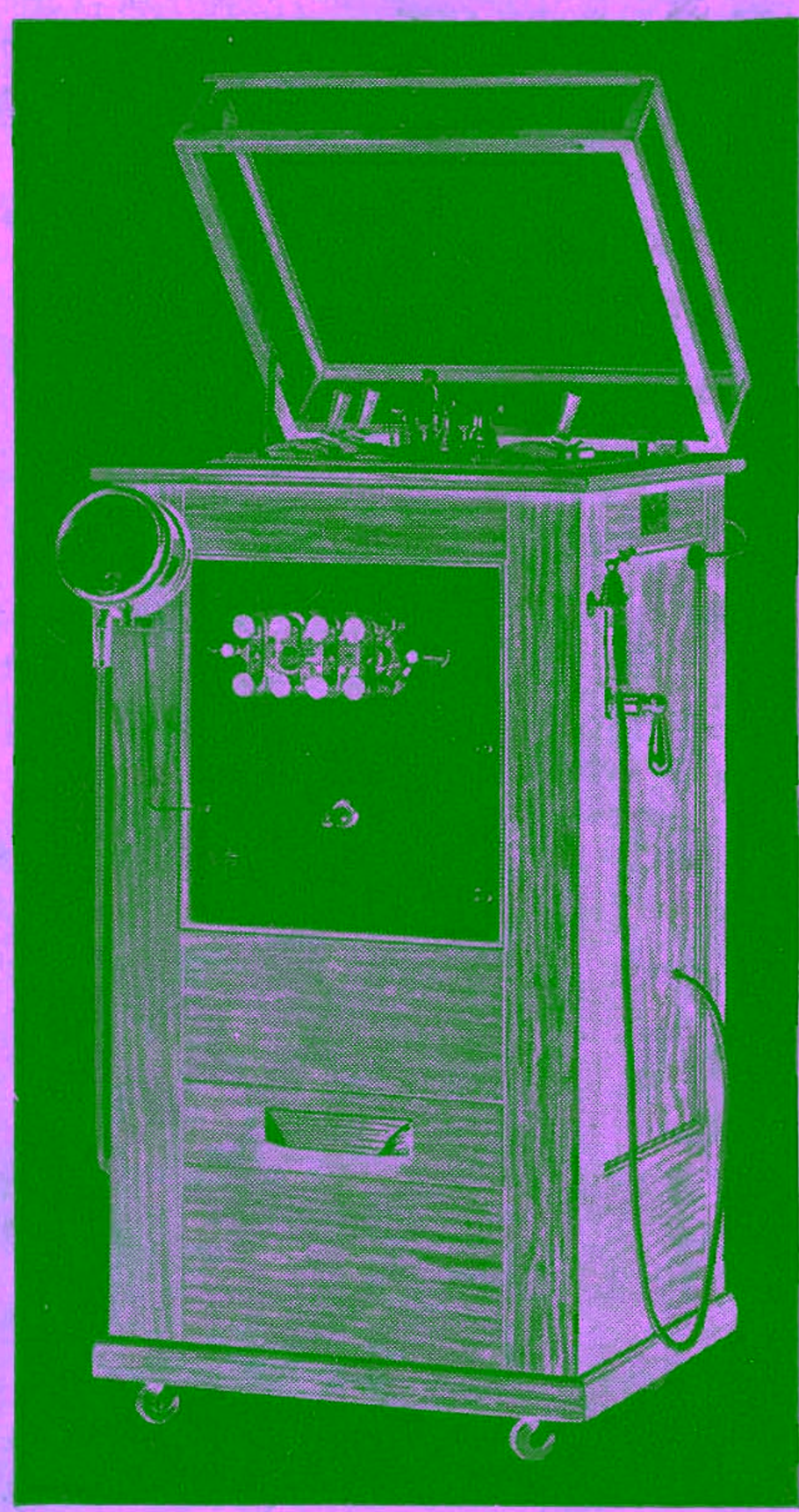
Fischer Combination Electro-physiotherapeutic Treatment Outfits

STYLE "FO" SENIOR *and* TYPE "LO" SENIOR



Manufactured by

H. G. FISCHER & CO., Inc.

X-Ray and Physiotherapeutic Apparatus

2333-43 WABANSIA AVENUE CHICAGO

The Fischer Style "FO" Senior High Powered Treatment Cabinet

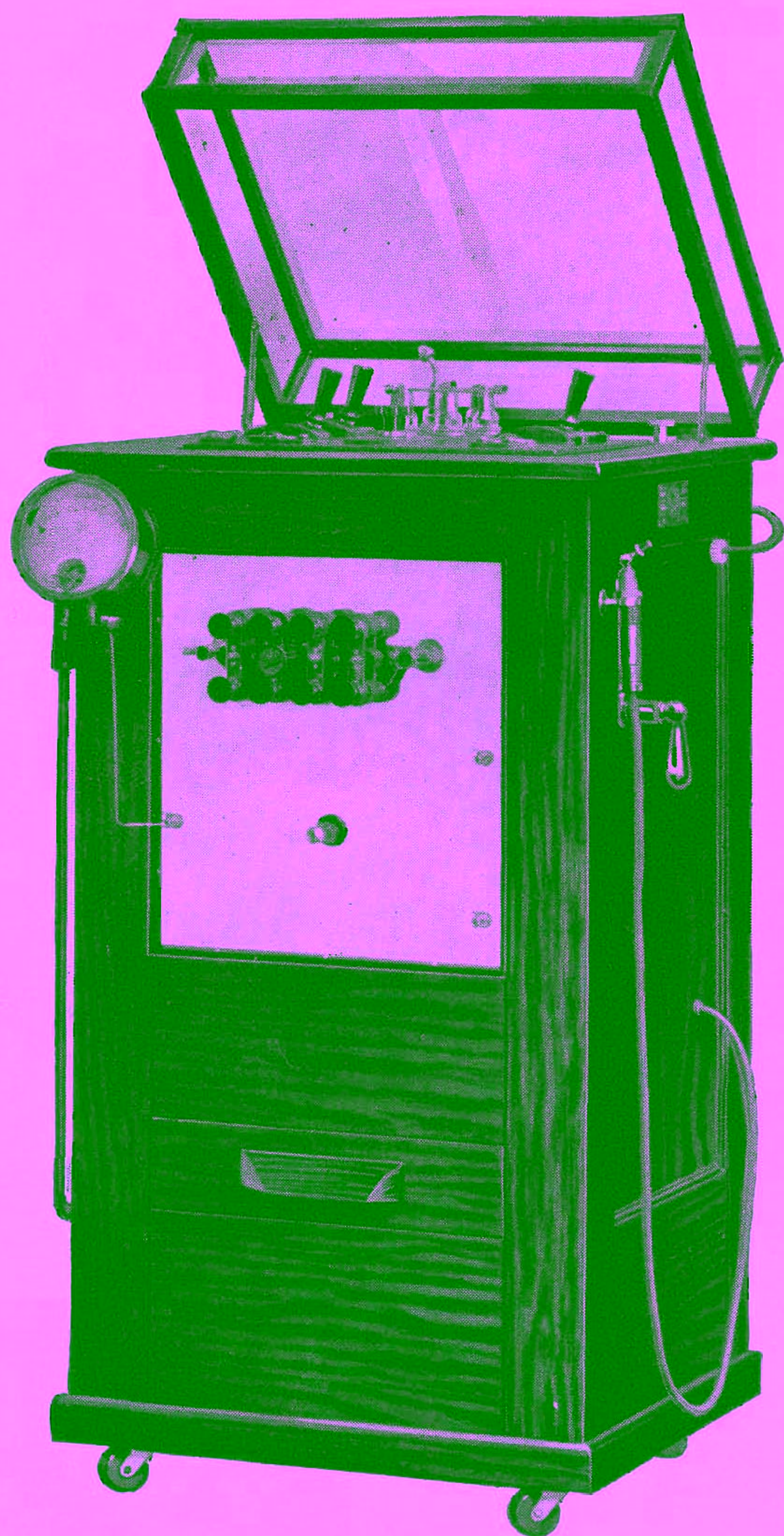
A handsome, impressive piece of office equipment, compact, simple in operation yet the most powerful machine of its type available, and capable of the finest kind of results.

A modern, ethical method of treatment in innumerable conditions, and a business builder—it shows the progressive, up-to-the-minute spirit—and completes the service you may render.

The Fischer Style "FO" Senior serves over twenty purposes, all from one convenient cabinet:

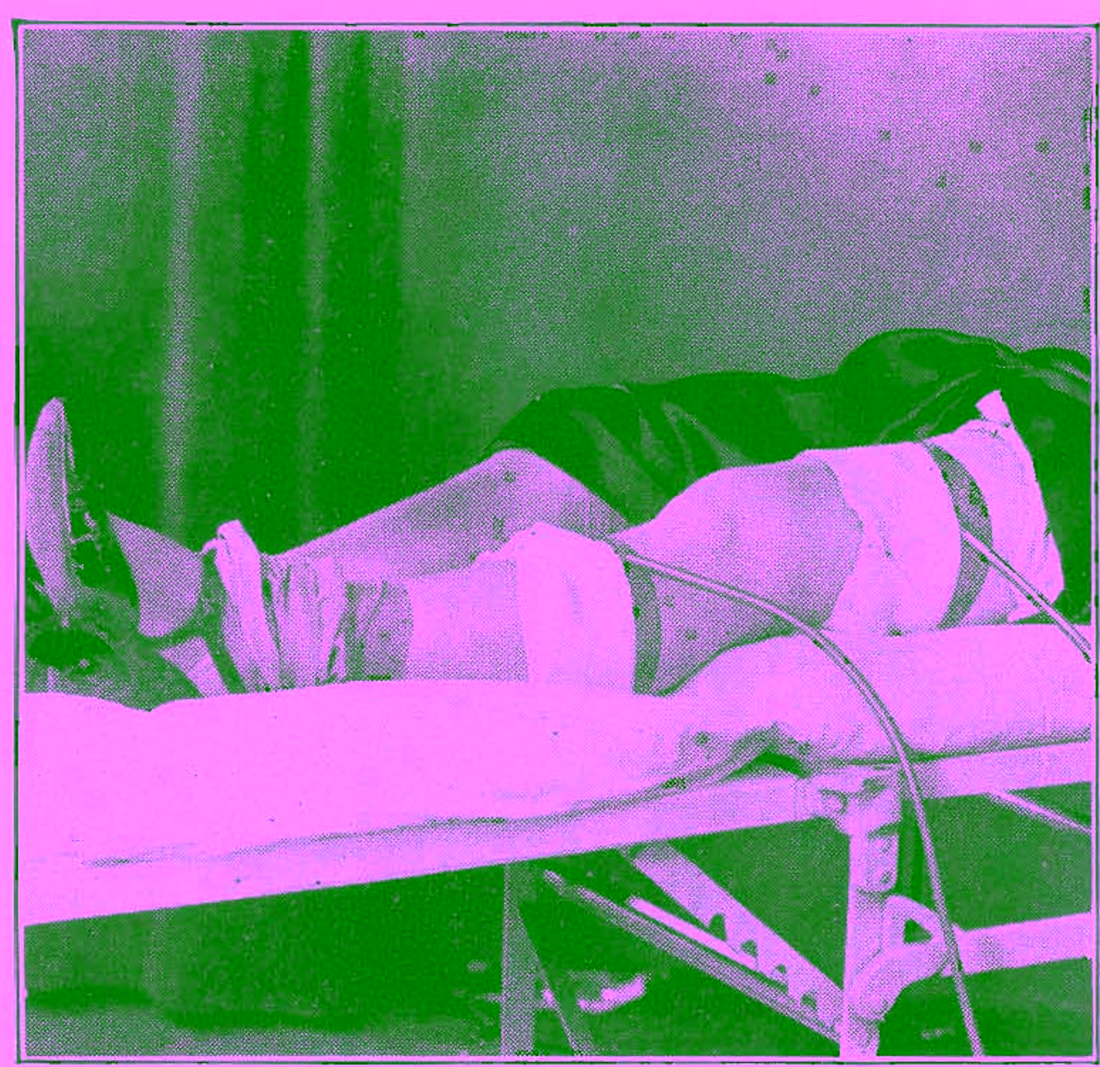
Medical Diathermy,
Surgical Diathermy, (Electro-Coagulation),
Fulguration (Desiccation),
Arsonval Auto-Condensation,
High Frequency,
Cautery,
Diagnostic Illumination,
Sinusoidal,
Tankless Compressed Air,
Nebulizing Outfit,
Electric Heater for Air,
Electric Heater for Fluids,
Pneumatic Vibrator,
Vibratodes for all purposes,
Heat and Vibration,
Vacuum,
Vacu-Vibration, and other modalities equally valuable.

Diathermy (Medical) Diathermy, the latest development and unquestionably the most useful of the High Frequency modalities, is used in two distinct forms—Medical and Surgical—the outstanding difference being that while in the former we raise the temperature of the tissues within physiological limits, in the latter we far exceed this point and tissue is destroyed.



Catalog No. 1230. Style "FO" Senior Treatment Cabinet.

This modality is obtained in a similar manner to the D'Arsonval Auto-Condensation, but the method of application differs widely. Diathermy may be defined as a form of Thermo-Therapy which utilizes electrical energy for the production of thermal (heating) effects in the depths of the tissues.



Medical Diathermy Application to Knee

We all know the therapeutic value of heat. Poultices and the hot water bottle have been used since time immemorial, but before the advent of the "Diathermy" application all bodily heat (with the exception of that generated by the combustion of food) had to be applied from the outside—the outer shell received more than its share of the heat administered while the internal areas were practically untouched.

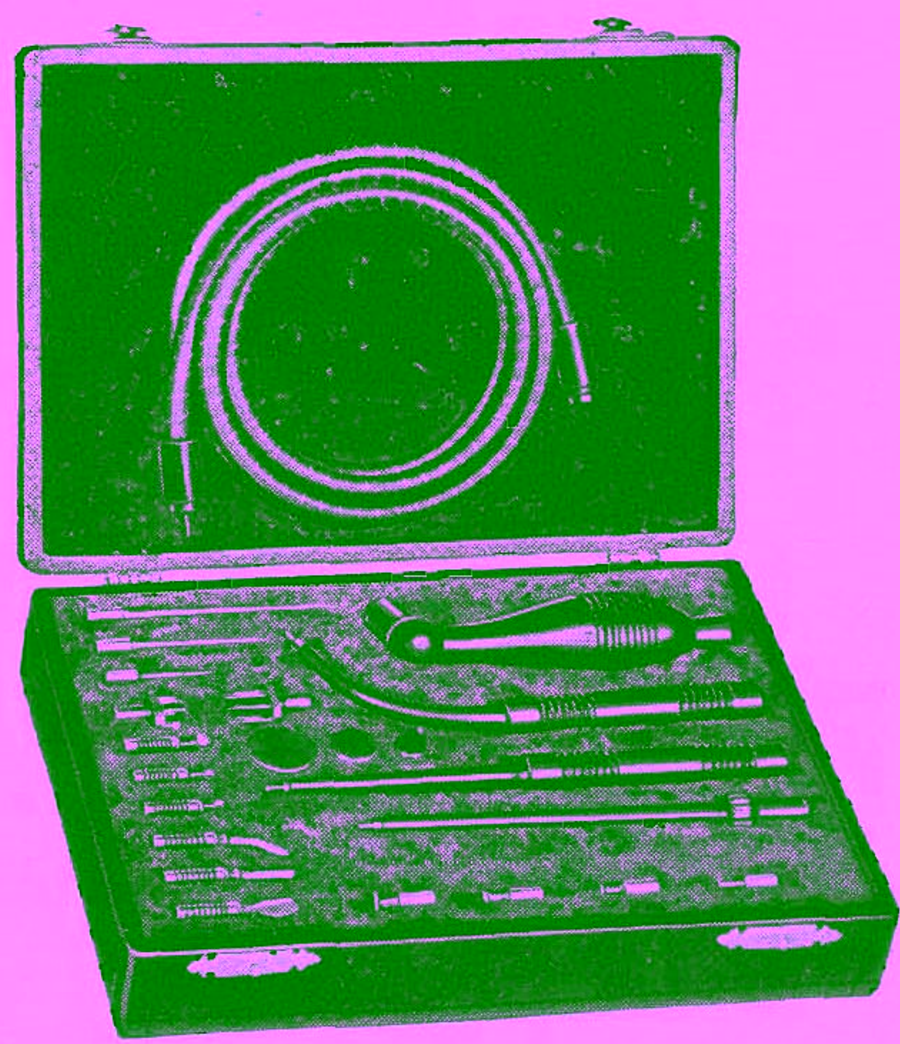
When applying Diathermy, however, the desired heat may be directed to precisely any area, the intensity of the application may be modified to suit the individual case, the patient feels no "electrical sensations," and the entire treatment consists of generating just the required amount of heat at the focal point necessary regardless of how deep in the tissues that point may be.

Application Diathermy to Chest

Diathermy, although one of the newer currents in Physiotherapy already has a host of enthusiastic followers. The process of altering tissue conditions with the Diathermy Current closely resembles Nature's own work, in that while the soft fibres, nerve cells and the blood are all good electrical conductors and therefore conductors of the heat generated during the treatment, and as fibrous tissues are not good conductors, it may readily be seen that the heating generates in exact inverse proportion to the conductivity of the tissues; the fibrous materials most and the good conductors least.

Diathermy (Surgical) (Electro-Coagulation) Surgical Diathermy is the application of High Frequency currents for destruction of tissues by the heat produced through the resistance offered by the substance through which the current is forced.

This method differs from all other applications of heat in that instead of the heat being sent inward from the skin, electrically or otherwise, it is *actually generated within the tissues*, and the temperature raised as desired to the point where actual coagulation takes place.



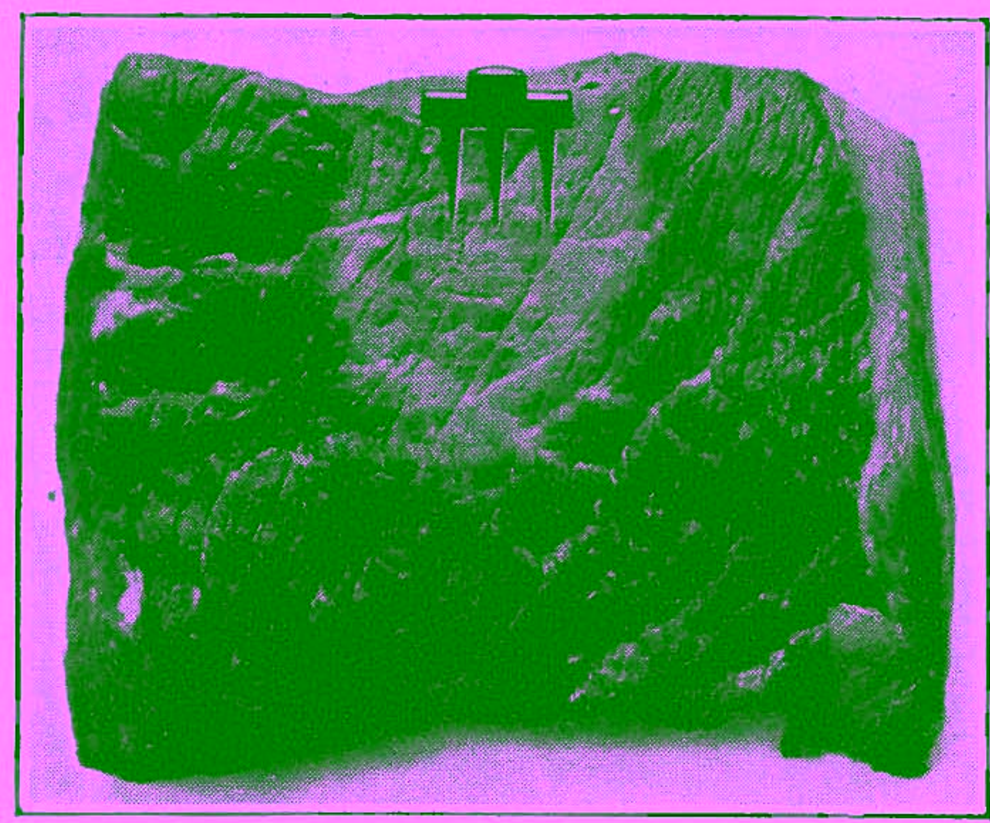
No. 1300 Set Surgical Diathermy Electrodes

Surgical Diathermy is used to advantage in cases involving malignant tissue—it is far superior to any other known method because of the fact that otherwise inoperable growths are successfully destroyed. The blood and lymph coagulate, the vessels are sealed and the infecting organisms annihilated.

The advantages of Surgical Diathermy are many: The operations are bloodless, there is little surgical shock, the parts involved are thoroughly sterilized, but little time is consumed, post-operative adhesions are rare and the patient convalesces rapidly.

Illustration—Surgical Diathermy Experiment

A piece of beef, measuring 3 in x 3 in. x 2½ in., was used in this experiment. The 5 pronged multiple needle electrode was forced down into the center until the flat section rested on the meat proper. The slide rod "J" was withdrawn two sections, the control lever set on point 3, and 1100 milliamperes passed for ½ minute, followed with ½ minute of 2000 M. A.



Result:—An evenly coagulated white appearing mass of tissue, extending 1⅜ inches deep and 1⅛ inches wide. No charring.

It is clearly a destructive process for coagulating to any desired depth, and there is practically no danger of metastasis in cases of malignancy.

Fulguration (Desiccation) This very valuable modality is the *Dehydrating process* as obtained from the Oudin Coil. The ordinary, direct, unipolar Fulguration application is a successful treatment for all accessible benign neoplasms of the skin and mucous membranes. Recommended for the removal of Bladder Papilloma, Lupus Vulgaris, Warts, Moles, etc.

D'Arsonval Auto-Condensation Auto-Condensation is the most popular High Frequency modality for treating all general toxic conditions. The constitutional effects are numerous, increases being noted in temperature and bodily heat, oxidations, secretions, eliminations, glandular activity and general metobolism. When hypertension exists there is a marked decrease in the blood pressure.

These currents are soothing to the entire system, and the effects of the application constitute what may be termed a cellular

Auto Condensation Treatment

massage. No sensation of electrical current is perceptible by the patient. The Style "FO" Senior Cabinet delivers a volume of this valuable current far in excess of any demands that you may make of it.

High Frequency Current Although this modality is applied to the patient at varied intensities from zero to thousands of volts potential, the Frequency, or rate of oscillations, is so rapid that no harm can possibly result from its use. On the other hand it affords a wonderfully beneficial treatment for both external purposes and in the orifices.

High Frequency applications dilate the blood vessels and increase the blood supply to a given area, increase oxidation and oxygenation, promote absorbtion of exudates and liberate ozone. They are most successfully used in the treatment of Abscesses, Acne, Skin Ulcers, Eczema, Enlarged Tonsils, Blepharitis, Uterine diseases, and for the relief of pain in Neuritis and Neuralgias.

The output of this modality is finely regulated—obtainable in any quantity.

Sinusoidal The Sinusoidal Current is sedative and analgesic. It is a valuable aid in Muscular Atony, Congestion of the Viscera, Intestinal Stasis, Atrophied conditions of the Muscles and Nerves, and sluggish circulation of the Venous Blood. It is used to good advantage as a means of exercising the muscles after the removal of the cast in fracture cases.

Application Sinusodial

The application is very simple, and a small assortment of electrodes may be used for a number of distinctly different cases. The Sinusoidal Current discharge from the Style "FO" Senior has a variation of from 3 to 45 volts.

Cautery The Style "FO" Senior Cabinet delivers a cautery Current with sufficient range of power to heat any ordinary cautery knife. Capacity 100 amperes. Under perfect regulation, and invaluable for cutting and sealing purposes, Nasal Hemorrhages, and opening Boils.

Application Cautery

Diagnostic With a range of from 2 to 12 volts. Finely regulated and with sufficient scope for the lighting of all special cystoscopes and mouth lamps as well as the illuminator furnished.

Motor and Pump Another excellent feature of the Style "FO" Senioris the Motor and Pump attachment, furnishing both Pressure and Vacuum—for nebulizing and vibration, and for cupping and vacuum-vibration. Pure air is

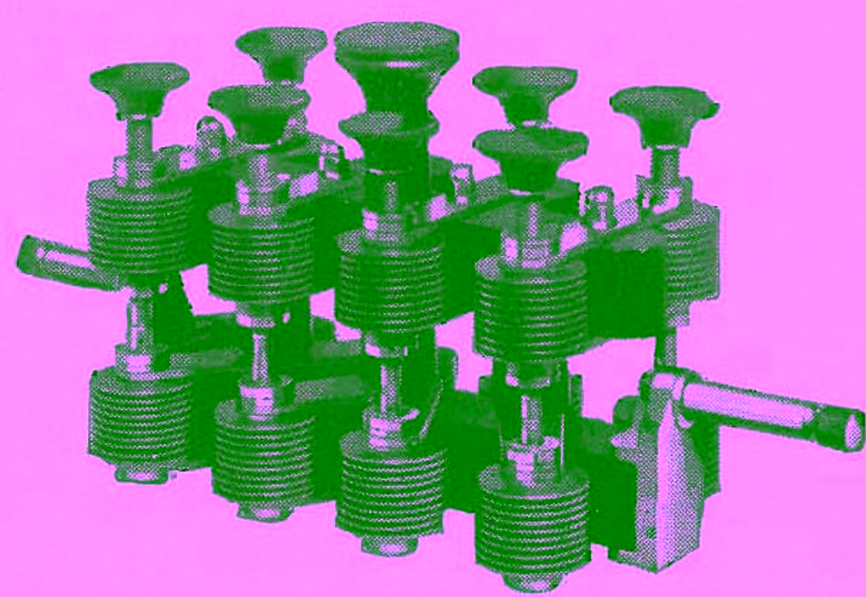
pumped as needed, delivered uniformly at the desired pressure, eliminating the laborious hand pumping and tank of more or less stale air.

By the mere turning of a handle this steady pressure is changed to one of rapid pulsations, thus providing a true pneumatic vibration; less noisy, and having considerably longer life than the ordinary mechanical device. A full set of vibratodes is included for all surface and cavity work.

There is sufficient vacuum for all cupping purposes, and any appliances ever gotten up for use with the Dr. Bier method of producing hyperemia can be successfully used with this cabinet. The vacuum may also instantly be altered from steady to pulsating, for vacu-vibration.

Application of heated air to ear

Multiple Spark Gap The Style "FO" Senior Cabinet is equipped with an especially designed Spark Gap of the multiple type, of 8 sections (16 points). This "*Kolischer*" Gap is wonderfully smooth in action, has adequate copper flanging to carry away all heat, each pair of Tungsten points may be adjusted individually or collectively (by individual button or master controller), and the parts are easily replaced when required.



This gap is the utmost in flexibility, insures more constant discharge at any setting, the regulation is very gradual, and a perfectly controlled *sedative* Diathermy dosage may be administered.

The Transformer The Style "FO" Senior Cabinets are constructed with Oil insulated transformers only. The *Oil insulation* permits of continual operation without the slightest danger of breakdown or lessening in efficiency.

The very ingenious method of winding and construction employed in the coils permits of a greater variety of voltage steps than has been possible in any apparatus heretofore. There is a very *low voltage* output at an extremely high rate of frequency and high milliamperage for *Electro-coagulation* purposes; a somewhat higher voltage but equally high amperage for *Medical Diathermy*; a still higher voltage for D'Arsonval's *Auto-condensation*, and a very high voltage at a high rate of frequency for the *mono-polar* (*Oudin*) discharge.

The General Construction The latest and most approved type of construction is used throughout: all the wiring is well protected; the switches are heavy, and of the safety "enclosed" type; an auto-transformer with 16 points of control is employed, insuring continual operating service and the finest of regulation; the pilot (warning) lamps are mounted under ruby glass protectors; there is a selector switch at the side that any voltage may be obtained at will without disturbing connections to the patient, and a well insulated Foot-switch with cut-out is provided.

The Cabinet The entire equipment is mounted securely in a handsome cabinet, finished as specified on your order, with ample drawer space for the accessories furnished. *Mahogany will be furnished unless specified otherwise.* The Style "FO" Senior Cabinet can be supplied in other finishes—Golden Oak, Mission or Fumed Oak at the cataloged price, and in White Enamel at a slightly increased cost.

Guarantee The Fischer Guarantee is liberal, and in perfect keeping with a manufacturing and selling policy deemed fair by the medical profession today.

Catalog No. 1230—Style "FO" Senior Physiotherapeutic Apparatus, with *Oil* Insulated Transformer, mounted in handsome Cabinet finished as specified, with individual windings and outlets for Low Voltage Surgical Diathermy (Electro-Coagulation), Medium Voltage Medical Diathermy, D'Arsonval Auto-Condensation, Fulguration, High Frequency, Cautery, Diagnostic and Sinusoidal circuits, an Electrical Motor with Two Cylinder (opposed type) Pump attached, connecting Cord and Plug, Rubber Tubes with Vacuum and Pressure Handles, and:—

1	No. 450	Milliampere Meter.
1	No. 455	Milliampere Meter Support.
1	No. 460	Meter Connecting Wire.
1	No. 1222	Multiple Spark Gap (Kolischer Type).
3	No. 1330G	Rubber Covered Diathermy Cords, 6 ft.
1	No. 83	Heavy High Frequency Cord.
1	No. 1205	Insulated Foot Switch with 8 ft. Cable.
1	No. 862	Insulated Electro-coagulation Electrode with Cable.
2	No. 614	Hand Diathermy Electrodes.
1	No. 847	Flexible Mesh Electrode, 6″ x 6″.
1	No. 848	Flexible Mesh Electrode, 6″ x 8″.
2	No. 851	Mesh Connectors.
2	No. 840	Pounds Sheet Block Tin for Electrodes.
2	No. 688	Clips for Block Tin Electrodes.
2	No. 854	Yards Elastic Bandage.
1	No. 865	Multiple Cord Connector.
1	No. 880	Empty Sand Bag (5″ x 15″).
1	No. 876	Can Soap Lather.
1	No. 420	Heavy Auto-condensation Couch Cushion.
1	No. 58	Metal D'Arsonval Handle (1½″ x 14″).
1	No. 9	Metal Disc Body Condenser Electrode.
1	No. 4	Nasal High Frequency Electrode.
1	No. 12	Insulated Rectal High Frequency Electrode.
1	No. 13	Insulated Vaginal High Frequency Electrode.
1	No. 23	Capillary Glass Urethral Electrode.
1	No. 24	Capillary Glass Throat Electrode.
1	No. 56	Adjustable High Frequency Handle.
1	No. 301	Cautery Handle (adjustable to 5 positions).
1	No. 305A	Cautery Knife.
1	No. 305C	Cautery Knife.
1	No. 316	Spongio Disc and Handle (sinusoidal).
1	No. 321G	Diagnostic Illuminator.

(*Balance of list on next page.*)

1	No. 322	Extra Diagnostic Lamp Bulb.
3	No. 1520	Spray Bottles with Rubber Stoppers.
1	No. 1521	Atomizer.
1	No. 1522	Nebulizer.
1	No. 1523	Powder Blower.
1	No. 1500A	Small Glass Vacuum Cup.
1	No. 1500C	Glass Vacuum Cup, Large.
1	No. 1550	Small Vibratode (solid rubber holder).
3	No. 1550R	Soft Rubber Vibrating Caps for No. 1550.
1	No. 1551	Medium Vibratode (metal holder).
2	No. 1551R	Soft Rubber Vibrating Caps for No. 1551.
1	No. 1555	Flexible Rubber Vacuum Cup.
1	No. 1556	Flexible Rubber Body Vacuum Cup.
1	No. 1562	Rubber Colon Catheter with Metal Holder.
1	No. 1562A	Rubber Catheter Dilating Bag.
1	No. 1570	Air Heater.
1	No. 1571	Extra Heating Unit for No. 1570.
1	No. 1572	Air Spreading Attachment for 1570.
1	No. 1573	Metal Connector for Rubber Cups to Handle.
1	No. 1582	Can of Motor Grease.
2	No. 1581	Clips and Screws for Vacuum and Pressure Handles.
4	No. 1580	Large Lignum Vitae Casters.
4	No. 879	Packages Prepared Leyden Jar Salt.
1		Book of Instructions.

CATALOG No. 1230—Complete physician's outfit as described in the foregoing code NIGRES. Price.....$750.00

Shipping Weights and Measures Covering Outfit No. 1230

Net Weight in Lbs.	Net Weight in Kilos	Gross Weight in Lbs.	Gross Weight in Kilos	Dimen. of Containers in Inches	Dimen. of Containers Centimeters	Description of Contents of Containners
328	147.0	385	163.0	27x30x51	68x77x145	Crt. Cabinet
60	27.0	88	39.6	31x26x36	33x65x90	Box Supplies

Style "FO" Senior Cabinet measures 23" deep x 26" wide x 52" high.

Unless otherwise specified these outfits will be furnished to operate on the **110 Volt, 60 Cycle A. C. Line.** Where the current available is other than 110-60 the following prices apply—

For 110 Volt 25 Cycles—add $45.00
For 110 Volt 40 Cycles—add $35.00
For 220 Volt 60 Cycles—add $45.00

Direct Current Where the Direct Current only is available, a Rotary Converter, to transform the direct current flow into the necessary 110 Volts at 60 Cycles alternating must be employed. The Style "FO" Senior can not be operated on the Direct Current line without a Rotary Converter.

When ordering a D. C. Machine, specify so carefully and we will install a D. C. Pump Motor in place of the A. C., and also furnish:—

Catalog No. 952X—Rotary Converter, with Protecting Condenser.

Code ENNUI.—price $115.00.
For operation on the 110 Volt D. C. Line.

—— or ——

Catalog No. 957X—Rotary Converter, with Protecting Condenser.

Code ENTER.—price $125.00.
For operation on the 220 Volt D. C. Line

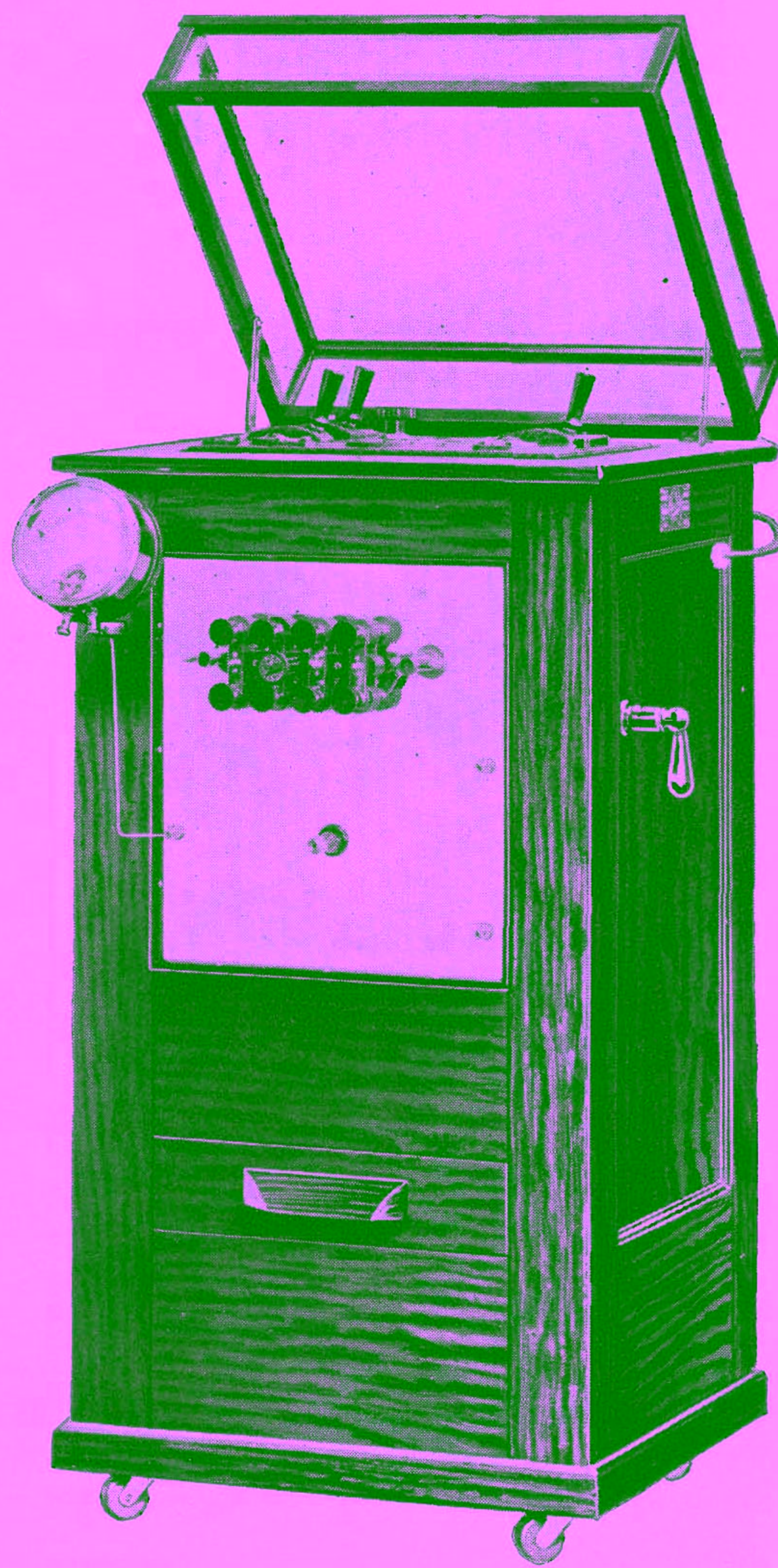
□ □ □

Shipping Weights and Measures Covering Rotary Converter

Net Weight in Lbs.	Net Weight in Kilos	Gross Weight in Lbs.	Gross Weight in Kilos	Dimen. of Containers in Inches	Dimen. of Containers Centimeters	Description of Contents of Containers
57	26.0	75	34	15x15x22	38x38x56	Box Rotary

Fischer Diathermy and D'Arsonval High Frequency Cabinet

Type "LO" Senior



Catalog No. 1232—Type "LO" Senior High Frequency Diathermy Apparatus

Patents Nos. 1260354 and 1260355

Designed especially for those physicians who are concerned with the specific application of Medical and Surgical Diathermy (Electro-coagulation), D'Arsonval Auto-condensation and monopolar High Frequency currents, but who have no desire for the Motor and Pump features described in the foregoing.

Catalog No. 1232—Type "LO" Senior Electro-physiotherapeutic apparatus, with oil insulated transformer, mounted in handsome cabinet finished as specified on your order, with individual windings and controls for Low Voltage Surgical Diathermy (Electro-coagulation), Medium Voltage Medical Diathermy, D'Arsonval Auto-condensation, Fulguration, High Frequency, Cautery, Diagnostic and Sinusoidal circuits, with connecting cord and plug, and:

1	No. 450	Milliampere Meter.
1	No. 455	Milliampere Meter Support.
1	No. 460	Meter Connecting Wire.
1	No. 1222	Multiple Spark Gap (Kolischer Type).
3	No. 1330G	Rubber Covered Diathermy Cords, 6 ft.
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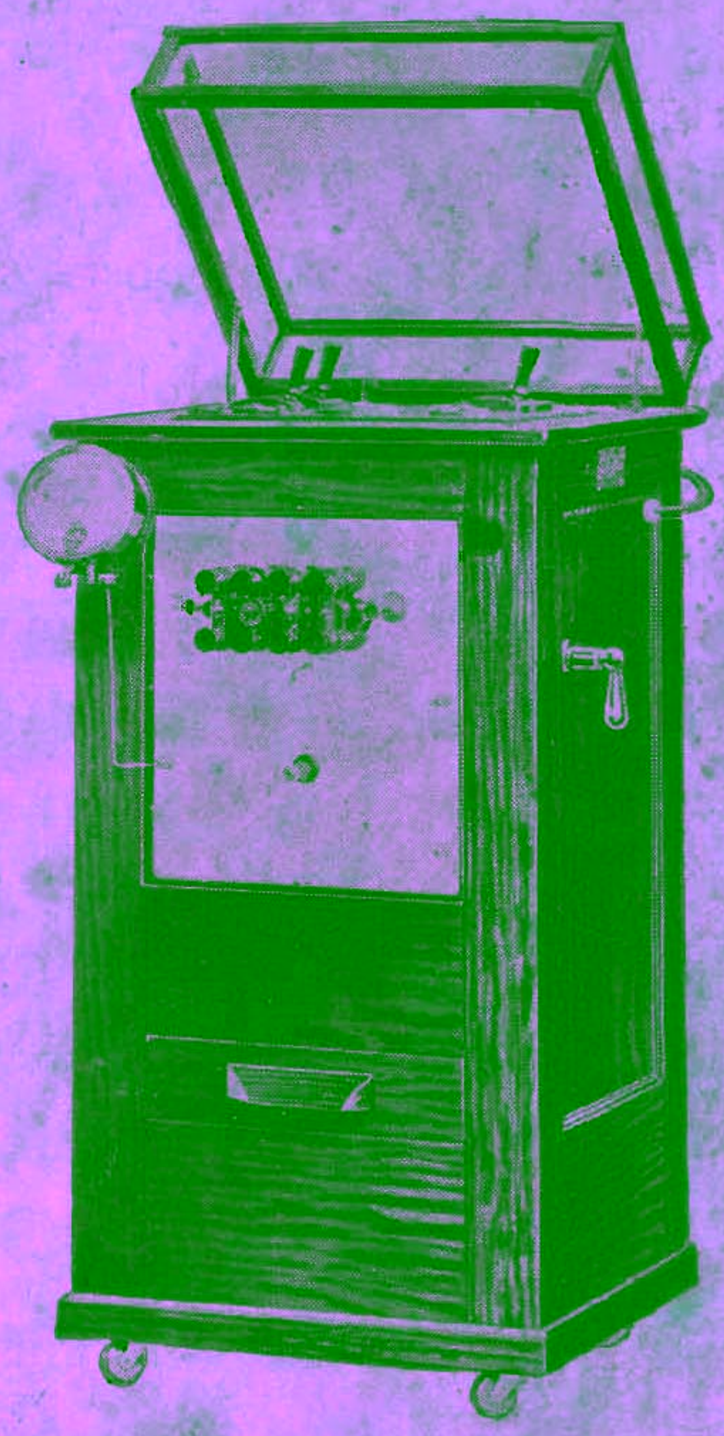
1	No. 321G	Diagnostic Illuminator.
1	No. 322	Extra Diagnostic Lamp Bulb.
4	No. 1580	Large Lignum Vitae Casters.
4	No. 879	Packages Prepared Leyden Jar Salt.
1	No.	Book of Instructions.

CATALOG No. 1232—code NIMBLE. Price.....$625.00
(For operation on the 110 Volt, 60 Cycle Alternating Current Line)

Where Direct Current only is available, see page 13.



Catalog No. 1232

TYPE "LO" SENIOR

Fischer
CHICAGO, ILL.

Form No. 430